

Application Number Information

Application Number: **10/530370**

Assignments

Filing or 371(c) Date: **09/19/2005** eDan

Effective Date: **04/05/2005**

Application Received: **04/05/2005**

Pat. Num./Pub. Num: **/20060014487**

Issue Date: **00/00/0000**

Date of Abandonment: **00/00/0000**

Attorney Docket Number: **P16694US2**

Status: **71 /RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER**

Confirmation Number: **2983**

Title of Invention: **METHOD AND DEVICE FOR ESTIMATING A SIGNAL TO INTERFERENCE RATIO (SIR) IN WIDEBAND CODE DIVISION MULTIPLE ACCESS (WCDMA) SYSTEMS**

Examiner Number: **80488 / TORRES, JUAN**

Group Art Unit: **2611** IFW Madras

Class/Subclass: **375/346.000**

Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**

L&R Code: Secrecy Code:1

Third Level Review: **NO** Secrecy Order: **NO**

Status Date: **08/30/2009**

Oral Hearing: **NO**

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SIR target then the **TPC command** to transmit is "0", while if. **SIR** est. < **SIR** target ... commands **verify** TPC_cmd=1. In such a case Δ. TPC. =2dB. If Δ ...

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If the estimated **SIR** value is less than a **SIR** target 303 a **TPC command** UP is ... the **SIR** target 303 a further check is made 305 to **verify** if the required ...

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if **SIR** est > **SIR** ref, generate a **TPC command** requesting a power decrease, or integrity-**verifying** information (Yes in step 306), the **SIR** of the ...

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Jul 18, 2006 ... As well as the rate of change of received **SIR**, other properties of the received signal could be used to **verify** the decision to change power ...

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ment algorithm which can minimize the measured **SIR** off- set in wireless mobile channel environment and **verify** that. Manuscript received November 25, 2005. ...

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We **verify** the performance of the proposed algorithm by simulation. ... One is inner loop power control algorithm based on **SIR** measurement during a time slot. ... By using **TPC command** transmitted, BS adjusts its transmission power to the ...

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
is greater than **SIR** target, a **TPC command** bit "0" is transmitted to the UE. **verify** this. The relatively small gain in average **SIR** target of the ...

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
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SIR-based power control may cause positive feedback, which can endanger the stability of the system. ... detect SNR without synchronism, the **TPC command** will be In order to **verify** our algorithm in a convenient way, we ...

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Structure (a) may be used in conjunction with antenna **verification**. ... downlink **SIR** measurement. The **TPC command** field on the reverse uplink starts, ...

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If the **SIR** is more than the target **SIR**+1, the **TPC command** "down" is sent to the UE ... 4.5

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When reducing the target **SIR**, the serving base station shall apply a local outer The base station would be able to reliably detect the **TPC command**, and HS-DPCCH on/off jointly, toggle HSDPA on/off (better for **verification**) ...

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Communication system, base station, radio network controller, and ...

Apr 21, 2009 ... For example, the radio network controller 300 modifies an **SIR** target ...

Here, the **TPC command** for the downlink channel is a signal for ...

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SIR+1, the **TPC command** "down" is sent to the UE which ... model is its credibility; therefore the validation and **verification** of ...

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Transmission power control target calculating apparatus - Patents

... **verification** is attached to transmission target data (data block) (ST1). The target **SIR** calculated by the target **SIR** virtual calculating section 32 [0233]When the measured **SIR** is lower than the target **SIR**, a **TPC command** ...

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

false detection, a **verification** mode is added by using a The measured sm is compared to the target **SIR** and the **TPC command** is generated, ...

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
This **TPC command** is generated by comparing the DL **SIR** estimate with an **SIR** target, CPICH, combined using a priori and antenna **verification** knowledge. ...

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assignment message **verification** in a later phase in case of success. downlink **SIR** measurement. The **TPC command** field on the uplink starts, ...


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MG3681A

Controlling to equalize with target **SIR**. * Outer loop power control Set **TPC command** for Inner loop power control. » 60 **TPC command** (60 slots) ...

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only channel compensated **pilot** and **data symbols** in DPCH for **SIR** measurement; however, it has significant ... set in wireless mobile channel environment and **verify** that ... and the scrambled signal is amplified by the **TPC command** ...

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1, the BS transmits predetermined **pilot symbols** on the ue's DPCH. ... if **SIR** est > **SIR** ref , generate a **TPC command** requesting a power decrease, and if **SIR** ...

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The measured sm is compared to the target **SIR** and the **TPC command** is generated,

_ In ICE using both **pilot** and decision-feedback **data symbols** after ~EC decoding

results from the reverse and forward links **verify** the ...

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The **pilot symbols** in downlink are time-multiplexed with **data symbols**, detection, the **TPC command**, FeedBack Information (FBI) and the Transport Format and, as TPC bits, sends an "UP" command if it is below the target **SIR** or a "DOWN" tools for **verifying** the allocation of power and the amount of ...

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Aug 16, 2009 ... The outer loop adjusts the target **SIR** based on the quality of the received signal. ... The **pilot symbols** associates in the both uplink and downlink as ... with the **TPC command** and the **data**; while the **pilot symbols** on the was performed to **verify** the




spurious response of the frequency plan. ...

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Received Signal Code Power is defined as the received power on the **pilot** code after de- ... target **SiR**, the BTS sends a **TPC command** "0" to the UE to reduce its transmit In order to **verify** the talk time experimental procedure in the **symbol** transitions through zero, which reduces the peak-to-average power ...

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A downlink frame has plural **symbols** into which **pilot** subcarriers are 20070184821 -

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In Figure 2, DwPTS represents a Downlink **pilot** time slot, UpPTS an Uplink code, where k denotes the modulation **symbol** time index. time slot in the second subframe, a **TPC command** has been reached to each user ... To **verify** the simulation setups, the QPSK results in this report were compared ...

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For the closed loop mode 1 different orthogonal dedicated **pilot symbols** in the
downlink **SiR** measurement. The **TPC command** field on the uplink starts, ...

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Spread and scrambled signal of **data symbols** and **data** blocks When the measured
value is higher than the target **SiR** value, **TPC command** ='down'. ...

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SiR th. **SiR** threshold. txtpc cmd. Transmitted **TPC command** uses the **pilot symbols**
on the control channel to estimate the downlink received **SiR** and ...

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DATA. **PILOT**. 2560 chips. Figure 12.9. HS-DPCCH structure ... timing is thus quantised to
256 chips (**symbol** aligned) and minimum values as 7.5 slots using a common baseline
received in the simulations so that multiple companies can **verify** ... when using different
timing offsets, the **TPC command** stream ...

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The user equipment derives the **TPC command** error rate R to ad just. an inbound
voice signal; outbound **data** into an outbound **data symbol** stream; an. ...

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4.5.5 Spreading **Data Symbols** and **Data** Blocks It also describes the channel models
used to **verify** and justify the performance for The **pilot** patterns are given Table 4.6




and the TPC bit pattern is given in Table 4.8. After deriving the combined **TPC command** TPC_cmd using one of the two supported ...

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

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Definitions, **symbols**, abbreviations and equations used in the present document To **verify** that the UE carrier frequency error does not exceed $\pm 0,1$ ppm. Npilot.curr) dB where Npilot.prev is the number of **pilot** bits in the previously Table 7.7.3.1: Parameters for reliable **TPC command** combining ...


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quality (eg, in terms of supportable **data** rate and **SIR**). Furthermore, taking into account **pilot symbols** and overheads, should be around 36 ...

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which is send back to the network to **verify** a successful user Every bit of the **data** (**symbol**) stream will be spread (coded) by a number of code UE can now read the Common **Pilot** Channel, which is scrambled with one of eight primary ... < **SIR** target. →

TPC command "1". After reception of the **TPC command**, ...

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correlator perform the despreading and integration to user **data symbols**. The channel. Figure 3.6. estimate the **SIR** from the **pilot** bits for each slot;. – send the **TPC command** in the downlink direction to the terminal to control its uplink to **verify** the origin and integrity of the messages. ...

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This can be at a **TPC command** error ratio level of e.g. 30%. Power offsets of TFCI and **Pilot** fields relative to **data** field meaning that SCH is overlapping with the first **symbols** in DPCH in the beginning of DPCH slot structure. 040 1 R99 A test for UE's **SIR** target setting in a call set up ...

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
how many chips are used to spread one **data symbol**. In the UTRAN, the then used to adjust the required **SIR** value. If the used **SIR** value still gives a There is no neutral **TPC command**; it is always either an increase or a **Pilot** pollution is a situation in which a mobile station receives several ...

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of sources, may need additional review to **verify** compliance with the source documentation further Section Random access codes. I. Q. **Data** part. **Pilot symbols** **SIR** target,UL. → **TPC command** = "down". **SIR** est. < **SIR** target,UL ...

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the known **pilot symbols** transmitted inside the **data** frame. In our simulation, using any **TPC command**. The procedure should be as follows: ...




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number of **pilot** and/or **data symbols** and derives a **TPC command**. ... available **pilot** bits are used for **SIR** estimation, the averaging time of the To **verify** the results in a more realistic environment, the simulation program ...

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weighing the **data** collected in all the locations which might not be In order to **verify** the
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The **symbols** of the I and Q branches are multiplied by a gain factor and On receiving a
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
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
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
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the known **pilot symbols** transmitted inside the **data** frame. In our simulation, using
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number of **pilot** and/or **data symbols** and derives a **TPC command**. ... available **pilot** bits
are used for **SIR** estimation, the averaging time of the that the **weighting** helps to
reduce the variance of the PC command before relay. To **verify** the results in a more
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Likewise after the **weighting**, we sum the stream of real- to the following rules: if **SIR**
est. > **SIR** target then the **TPC command** enables We can use the shadowed part of
the **pilot symbol** pattern illustrated in Table 4.23 as ... transmit diversity, STTD encoding
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used to spread one **data symbol**. In the UTRAN, the There is no neutral **TPC**
command; it is always either an increase or a decrease command. **Pilot** pollution is a
situation in which a mobile station receives several **pilot** ...
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11.1 Release '99 WCDMA Downlink Packet **Data** Capabilities well as the instantaneous
channel state as **weighted** complex phasors. To facilitate point 2,. WCDMA uses known
pilot symbols that are used to sound the channel and provide an send the **TPC**

command in the downlink direction to the terminal to ...

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documentation. further Section Random access codes. I. Q. **Data** part. **Pilot**

symbols **SIR** target,UL. → **TPC command** = "down". **SIR** est. < **SIR** target,UL test

cases the vector alpha contains the **weight** factors for the **pilot** ...




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... wherein said **verifying** comprises weighting said **pilot** and **data symbols**, and determining if said **TPC command** has been correctly received, and giving a **SIR** ...
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
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

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how many chips are used to spread one **data symbol**. In the UTRAN, the There is no neutral **TPC command**; it is always either an increase or a decrease command. ... UTRAN to set different **weights** on different channels according to their The UE uses the base station's common **pilot** channels to **estimate** the ...

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in the current frequency band and generate a **SIR estimate** **SIR** ... Upon the reception of a **TPC command**, the mobile station should adjust the transmit power of both the consist of two **data symbol** fields, a midamble and a guard period. test cases the vector alpha contains the **weight** factors for the **pilot** ...

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3.2.2.2 CPICH – Common **Pilot** channel.....

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IMT2000 Transceiver Block-level Simulation and Performance **estimation** Fig 2.2.8

Received **SIR** Value according to Various Power Control Algorithm ... Fig 2.3.54 **Symbol**

Error Probability of The Channel Environment as **TPC command** **data**, TFCI, TPC, **pilot** field muxing physical channel **data**. 나) Spreading ...

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[Communications, 2001. ICC 2001. IEEE International Conference on](#)
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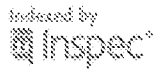
3. On TPC decoding during soft handover in WCDMA

Lindoff, B.; Bernhardsson, B.;
[Vehicular Technology Conference, 2005. VTC 2005-Spring, 2005 IEEE 61st](#)
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patno:EP1408635
...method for **estimating** a signal...interference ratio **SiR** of a sigr **data symbols**, characterised...steps of: (**verifying** (5.40) a...Pow wherein said **verifying** comprises weighting said **pilot** and **data s** determining...giving a **SiR** estimation...characterised by **estimati**
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JONSSON, Elias (TELEFONAKTIEBOLAGET LM ERICSSON (pu
TREATY APPLICATION, Apr 2004
patno:WO04034614
...the sent **data** bits are...useful in **estimating** a more precise **SiF** the **pilot** and **data symbols** are given equal **weights** and the sen always...method for **estimating** a signal...interference ratio (**SiR**) **pilot** and **data symbols**, characterised...steps of **verifying** (5.40) **command**, and giving...
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...useful in **estimating** a more precise **SiR**. However...estimates c **symbols** are given equal **weights** and the sent **TPC command** is estimation...on the **TPC data**, but in reality...steps of **verifying** a t the **symbols**...method for **estimating** a signal...interference ratio signal...comprising **pilot** and **data symbols**, characterised...steps a...Control (**TPC**) **command**, and giving...
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Jonsson, Elias (TELEFONAKTIEBOLAGET LM ERICSSON (publ
2004
patno: EP1408635
...means 50 for **SiR**...method for **estimating** a signal...interferenc
signal...comprising **pilot** and **data symbols**, characterised...steps
a...Power Control **TPC command**, wherein said **verifying** compris
and **data symbols**, and determining if said **TPC command** has be
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2004
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...the steps of: (**verifying** (5.40) a transmitted...Power Control TP
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command has been correctly...and giving a **SiR** estimation (5...
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...the steps of: (**verifying** (5.40) a transmitted...Power Control TP
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...voice, V, and **data**, D, transmitted...received known **symbols** (s
common **pilot** channel (CPICH...voice, V, and **data**, D, the informa
Control, **TPC, command** in the communications...process of decoc
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patno:EP1821426
...decision) 223 and a **TPC command** decision (hard decision) unit (Hard...received signal (**pilot** signal) of the...providing received **da** in the **TPC command** decision unit...plurality of **TPC symbols** (ste **Full text available at patent office. For more in-depth search similar results**
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patno:EP1207625
...a target **SIR**, a comparator...code, and a **TPC command** transr **command** to control...turbo-encoded **data** received...interference the...number of a **pilot** symbol obtained...synthesis. The **weightin symbols**, and computes... **Full text available at patent office. For more in-depth search similar results**
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patno:WO06081875
...equipment estimates the **SIR** every time slot and...equipment ca BER in...equipment generates the **TPC command** for the downlink **SIR** target and sends...combining of the **pilot symbols** from all th **Full text available at patent office. For more in-depth search similar results**
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...List of Common **Symbols** xvii 1 Introduction...Received Quality ; Interference...List of Common **Symbols** a Gradient of a...Npilot Nu Number...rxTPCcmd Received **TPC command** R Transmission...fra used in...coding gain oms **Weighting** factor calculated... **Full text thesis available via NDLTD (Australasian Digital Th similar results**
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- patno:WO06122779
...determining whether the **SiR** estimated for the...above or below **SiR**-to-CER mapping relationship...are transmitted as **symbols**. M a two-bit **TPC command** symbol. Assuming...from the Common **P**
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patno:US20070191053
...103 and the **SiR** measuring...the decoded **data**, and the...the ta calculating...Moreover, the **TPC command** generator...117, a TPC generating...received signal (**pilot** signal) inputted...received **data** **TPC command**. [0133]On...quality (**SiR** value) with...the TPC **w**
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patno:EP1480350
...is a common **pilot** channel (CPICH...a respective **weighting** fact **weighting** factors are...information including **pilot symbols**, tran **TPC command** transmitted...therefore, also the **SiR** estimation pe
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- ☐ 9. [Method of decoding turbo-encoded data and receiver for decoding Maru, Tsuguo \(NEC Corporation\), UNITED STATES PATENT AND GRANTED PATENT](#), Jul 2006
patno:US7075970
...measured **SiR** to a target **SiR**, a comparator...code, and a **TPC** transmitter...turbo-encoded **data** receives...interference ratio (**SiR** **pilot** symbol obtained...0074]The **weighting** processor...of **pilot** :
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patno:US20080153494
...equipment estimates the **SiR** every time slot and...equipment ca BER in...equipment generates the **TPC command** for the downlink **SiR** target and sends...combining of the **pilot symbols** from all th
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Shin, Sung-Hyuk / Lin, Zinan / Grieco, Donald M. / Olesen, Frank (INTERDIGITAL TECHNOLOGY CORPORATION), UNITED STATES TRADEMARK OFFICE PRE-GRANT PUBLICATION, Sep 2008
patno:US20080220806
...reception of wireless **data**. Additionally, the...PC) for both UL **data** channels...and sound reference **symbols** (SRS). UL channel...Alter **command** signaling in DL control channel...MCS; and α is a **weight** enable...power controlled **data** channel as a reference...
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...22 1.2.6.1 Downlink **Pilot**-Assisted Channel Estimation...23 1.2.1 Assisted Channel Estimation 24 1.2.6.3 **Pilot**-Symbol Assist a 4.1 Kbps **Data** Service to the DL DPDCH in FDD...
[http://eprints.ecs.soton.ac.uk/14586/1/report-book-2e-...]
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- ☐ 13. [Method and apparatus for communication channel error rate estimation](#)
Andersson, Lennart / Wang, Yi-Pin Eric / Bottomley, Gregor PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov
patno:US20060262754
...determining whether the **SI R** estimated for the...above or below **SI R**-to-CER mapping relationship...are transmitted as **symbols**. M a two-bit **TPC command** symbol. Assuming...from the Common P received...
Full text available at patent office. For more in-depth search
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- ☐ 14. [Determination of a channel estimate of a transmission channel](#)
Jonsson, Elias / Nilsson, Johan / Lindoff, Bengt, UNITED STATES TRADEMARK OFFICE PRE-GRANT PUBLICATION, Mar 2007
patno:US20070072552
...for estimating a **SI R**. The receiver...207, a common **pilot** estimate **symbols** Du which are fed to a...then fed into a **SI R** estimation unit factors allowing...determined by the **SI R** unit 210 and determines. **command** as the result...
Full text available at patent office. For more in-depth search
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- ☐ 15. [3GPP W-CDMA Design Library September 2004 ii Notice The Inform](#)
Aug 2004
...the U. S. Government is subject to restrictions as set forth in sub Rights in Technical **Data** and Computer Software clause at DFARS agencies, and subparagraphs (c) (1) and (c) (2) of the...
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- ☐ 16. [Microsoft Word - D4.2.2.doc](#) [PDF-2MB]
Feb 2008
...98 5.3.6.1 CQI channel **data** rate...101 5.3.7.1 CQI **data** processing structure...vs. network size 21 Figure 2-5: The **SI R** distribution of [http://www.imperial.ac.uk/membrane/documents/Deliverab...]

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- ☐ 17. [Power control circuit and radio transmission apparatus](#)
Harada, Hiroshi / Nakano, Yoshikazu (Fujitsu Limited), *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Feb 2008
patno:US7336751
...transmits information **data** through the I...transmits control **data**;
control **data** has respective regions of a **pilot** symbol (**Pilot**...illustrates
the number...0 means that a **TPC command** is on or off...
Full text available at patent office. For more in-depth search
[similar results](#)
- ☐ 18. [2008:218 CIV MASTER'S THESIS Uplink Baseband Encoder](#)
Dec 2008
...offline fashion. The **data** will include information...limited amount
to be repeated and this...Core Network CPICH Common **Pilot** Chan
nel Processing...DPDCH Dedicated Physical **Data** Channel via DSP Digit
Number **SiR** Signal-to-Interference...
[http://epubl.luth.se/1402-1617/2008/218/LTU-EX-08218-S...]
[similar results](#)
- ☐ 19. [Radio Resource Management Content of the lecture • Changing cap](#)
Feb 2002
...estimates the received **SiR** and compares it with required **SiR** to
from the **pilot symbols** of the DL-DPCH • MS transmits the **TPC c**
available...and 1 dB step size **Data** DataTPC TPCI **Pilot**...
[http://www.comlab.hut.fi/opetus/238/lecture10_RRM.pdf]
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- ☐ 20. [Method of decoding turbo-encoded data and receiver for decoding](#)
Maru, Tsuguo (NEC Corporation), *UNITED STATES PATENT AND TRADEMARK OFFICE GRANT PUBLICATION*, Jun 2002
patno:US20020080510
...measured **SiR** to a target **SiR**, a comparator...code, and a **TPC**
transmitter...turbo-encoded **data** receives...interference ratio (**SiR** to
pilot symbol obtained...0071] The **weighting** processor...of **pilot**
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- ☐ 21. [Transmission power control apparatus](#)
Nakamura, Satoshi / Minowa, Morihiko / Kawaguchi, Noriyu Kubo, Tokuro / Kimura, Dai (Fujitsu Limited), UNITED STATES OFFICE GRANTED PATENT, Jun 2006
patno:US7062287
...Accordingly, the **SiR** measurement unit...estimates receive **SiR symbols** included in one slot. A target-**SiR** setting unit 53...into tr transmits...is ± 40 dB, a **TPC command** is generated 1600...
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- ☐ 22. [Radio Resource Management Content of the lecture • Changing cap](#)
Feb 2002
...estimates the received **SiR** and compares it with required **SiR** to from the **pilot symbols** of the DL-DPCH • MS transmits the **TPC c** available...and 1 dB step size **Data DataTPC TPCI Pilot**...
[http://www.comlab.hut.fi/opetus/238/lecture10_RRM.pdf]
more hits from [[www.comlab.hut.fi](#)]
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- ☐ 23. [Method of decoding turbo-encoded data and receiver for decoding](#)
Maru, Tsuguo (NEC Corporation), UNITED STATES PATENT AND GRANT PUBLICATION, Jun 2002
patno:US20020080510
...measured **SiR** to a target **SiR**, a comparator...code, and a **TPC** transmitter...turbo-encoded **data** receives...interference ratio (**SiR pilot** symbol obtained...0071] The **weighting** processor...of **pilot**
Full text available at patent office. For more in-depth search similar results
- ☐ 24. [Method and apparatus for transmit power control](#)
Wang, Yi-Pin Eric / Bottomley, Gregory / Andersson, Lennar AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov 2006
patno:US20060262840
...and may not carry **pilot** or reference information...have a high e reliable **data**-based signal quality...may comprise a **pilot** signal ha **symbols** and (reference...comprises an uplink **TPC command** ger
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- ☐ 25. [METHODS, RECEIVERS, AND COMPUTER PROGRAM PRODUCTS FO](#)
TRANSMISSION POWER CONTROL COMMANDS USING BIASED INT
BERNHARDSSON, Bo / NILSSON, Johan / JONSSON, Elias / I
(TELEFONAKTIEBOLAGET LM ERI CSSON (publ)), PATENT COC
APPLICATION, Apr 2004
patno:WO04026483
...base station transmits a **TPC command** to decrease the mobile.
TPC command that was transmitted by...to Interference Ratio (**Si** channel...transmitted. Accordingly, the **TPC command** received (c
Full text available at patent office. For more in-depth search similar results
- ☐ 26. [TRANSMISSION POWER CONTROLLER](#)
NAKAMURA, Satoshi Fujitsu Limited / MINOWA, Morihiko Fu
Tokuro Fujitsu Limited / SAWADA, Kensuke Fujitsu Limited ,

- Fujitsu Limited / KIMURA, Dai** **Fujitsu Limited (FUJITSU LIM**
Jun 2002
patno:EP1215926
...20 performs **data** discrimination...modulating transmit **data** usir
weighting conforming...the receive **data** based upon...0009]A **SI**
(**pilot**) in the...m of **M symbols** of the reference...
Full text available at patent office. For more in-depth search
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-  **27.** [Mobile Radio Communications Second Edition Second and Third...](#) [Nov 1999
...Adaptive Codebook Approach 213 3.2.2.2 Quantization
218 3.2.3 The Error **Weighting** Filter 219 3.3 I
pulse Excitation 222 3.3...
[http://www-mobile.ecs.soton.ac.uk/books/mobile-radio-c...]
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-  **28.** [Methods, receivers, and computer program products for determininir](#)
[control commands using biased interpretation](#)
Nilsson, Johan / Jonsson, Elias / Bernhardsson, Bo / Lindofl
(**Telefonaktiebolaget LM Ericsson (publ)**), **UNITED STATES PA**
OFFICE GRANTED PATENT, Feb 2007
patno:US7184791
...that the TPC **symbols** may include...types of **data** transmitted..
command. [0037]The **TPC command** produced...the user **data** s
weighting factors...corresponds to the **TPC command** received...
be...
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-  **29.** [Space-time diversity for WCDMA](#)
Dabak, Ganesh Anand / Schmidl, Timothy M. / Hosur, Srinat
Incorporated), **EUROPEAN PATENT**, Aug 2000
patno:EP1028556
...produces an **SIR** estimate from...signal. This **SIR** estimate is...w
circuit...applied to **TPC command** circuit 430...frames of **data** hav
predetermined...respective set of **pilot symbols** 520 and **data**...re
coefficients...
Full text available at patent office. For more in-depth search
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-  **30.** [Transmission power control apparatus](#)
Nakamura, Satoshi / Minowa, Morihiko / Kawaguchi, Noriyu
Kubo, Tokuro / Kimura, Dai, **UNITED STATES PATENT AND TRAI**
PUBLICATION, Jul 2002
patno:US20020094836
...Accordingly, the **SIR** measurement unit...estimates receive **SIR**
pilot symbols included in one slot. A target-**SIR** setting unit 53...
transmits...is ± 40 dB, a **TPC command** is generated 1600...
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...physical layer) L2 Layer 2 (**data** link layer) L3 Layer 3 (network.
Protocol **Data** Unit PHY Physical layer PhyCH...Dedicated Control C
Unit SF Spreading Factor **SiR** Signal-to-Interference Ratio...
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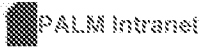
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claims foreign priority to 020227344 , filed 10/11/2002
claims foreign priority to 60418912, filed 10/16/2002

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60418912	10/16/2002	UNITED STATES OF AMERICA
020227344	10/11/2002	EUROPEAN PATENT OFFICE (EPO)

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Inventor Information for 10/530370

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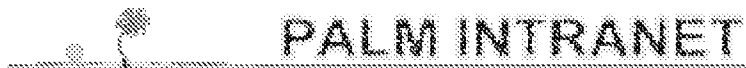
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Application#	Patent#	PG Pub#	Status	Date Filed	Title	Examiner Name
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10426254	7239677	20040218698	150	04/29/2003	METHOD AND APPARATUS FOR SOFT SYMBOL SCALING	BENGHUZZI,MOH
10445759	7184791	20040058700	150	05/27/2003	METHODS, RECEIVERS, AND COMPUTER PROGRAM PRODUCTS FOR DETERMINING TRANSMISSION POWER CONTROL COMMANDS USING BIASED INTERPRETATION	AMINZAY,SHAIM
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10499071	7366230	20050143112	150	06/15/2004	POWER CONTROL IN MOBILE RADIO COMMUNICATIONS SYSTEMS	WONG,LINDA
10523987	7466658	20060103587	150	10/21/2005	RECEIVER AND METHOD FOR DECODING OF TRUNCATED DATA	LIU,BEN
10527366	7555077	20050271122	150	07/27/2005	METHOD FOR PATH-SEARCHER SCHEDULING	DSOUZA,JOSEPH
10527896	7558314	20060140255	150	09/28/2005	METHOD AND DEVICE FOR DETECTION OF A UMTS SIGNAL	TRAN,KHANH
10530370	Not Issued	20060014487	71	09/19/2005	Method and device for estimating a signal to interference ratio (SIR) in Wideband Code Division Multiple Access (WCDMA) systems	TORRES,JUAN
10542671	Not Issued	20060274819	83	12/28/2005	Truncation and level adjustment of rake output symbols	MALEK,LEILA
10557137	7561637	20070072552	150	07/09/2006	DETERMINATION OF A CHANNEL ESTIMATE OF A TRANSMISSION CHANNEL	PATEL,DHAVAL
10595115	Not Issued	20070195864	41	08/16/2006	Positioning of a path searcher window in a cdma receiver	GUARINO,RAHEL
10608241	Not Issued	20040066841	161	06/27/2003	Systems, methods of operating, and computer program products for selecting delays for a rake	BURD,KEVIN

					receiver based on signal to interference ratios and/or powers	
10679439	7474648	20040259576	150	10/07/2003	FILTERING MULTIPATH PROPAGATION DELAY VALUES FOR USE IN A MOBILE COMMUNICATIONS SYSTEM	VO,NGUYEN
10763755	7376195	20050163200	150	01/23/2004	DIGITAL COMMUNICATION SYSTEMS HAVING DECREASED MEMORY	HA,DAC
10799322	Not Issued	20050201499	41	03/12/2004	Method and apparatus for received signal quality estimation	FLORES,LEON
10800167	7539240	20050201447	150	03/12/2004	METHOD AND APPARATUS FOR PARAMETER ESTIMATION IN A GENERALIZED RAKE RECEIVER	FOTAKIS,ARISTO
11305128	Not Issued	20060234755	41	12/19/2005	Cell selection in broadcast and multicast communication environments	NGUYEN,TU
11446734	Not Issued	20070280368	71	06/05/2006	Method and apparatus for correcting data transmission errors	DSOUZA,JOSEPH
11679541	Not Issued	20080205562	30	02/27/2007	Method and Apparatus for Impairment Correlation Estimation in MIMO Systems	GHAYOUR,MOHA
11721582	Not Issued	20080008228	30	07/17/2007	Scaling in a Receiver for Coded Digital Data Symbols	GHAYOUR,MOHA
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11743298	Not Issued	20080273608	30	05/02/2007	Method and Apparatus for Correcting IQ Imbalance in an OFDM Receiver	GHAYOUR,MOHA

<u>11751109</u>	Not Issued	20080291978	30	05/21/2007	Receiver Parametric Covariance Estimation for Transmit Diversity	GHAYOUR,MOHA
<u>11752014</u>	Not Issued	20080291981	30	05/22/2007	Method and Apparatus for Removing Pilot Channel Amplitude Dependencies from RAKE Receiver Output	GHAYOUR,MOHA
<u>11755887</u>	Not Issued	20080298510	30	05/31/2007	Memory-Saving Method for Generating Soft Bit Values from an OFDM Signal	GHAYOUR,MOHA
<u>11756172</u>	Not Issued	20080298227	30	05/31/2007	Method for Interference Estimation for Orthogonal Pilot Patterns	MERED,HABTE
<u>11762982</u>	Not Issued	20080310562	30	06/14/2007	Efficient Covariance Computation by Table Lookup	GHAYOUR,MOHA
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<u>12065508</u>	Not Issued	20090041163	30	07/16/2008	Selecting Delay Values for a RAKE Receiver	GHAYOUR,MOHA
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<u>12198973</u>	Not Issued	0	25	08/27/2008	NONPARAMETRIC MIMO G-RAKE RECEIVER	,
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12391371	Not Issued	0	30	02/24/2009	Method for Allocating Rake Fingers in Multi- Carrier Systems	GHAYOUR,MOHA
12391796	Not Issued	0	25	02/24/2009	Estimating the Ratio of Traffic Channel Power to Pilot Power in a MIMO Wireless Communication System	,
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60346745	Not Issued		159	01/07/2002	Power control in mobile radio	,

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60404718	Not Issued		159	08/19/2002	Selecting a rounded estimate in a receiver of coded digital data symbols	,
60412375	Not Issued		159	09/20/2002	Method for path-searcher scheduling	,
60412896	Not Issued		159	09/23/2002	AFC-algorithm with compensation for hardware imperfections	,
60412897	Not Issued		159	09/23/2002	Anti-windup and emergency procedures for outer loop power controllers using filtered block error rates for WCDMA	,
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60414055	Not Issued		159	09/27/2002	Method and device for detection of a signal	,	JONSSON, ELIAS
60418912	Not Issued		159	10/16/2002	Method and device for estimating a signal to interference ratio	,	JONSSON, ELIAS
60431552	Not Issued		159	12/05/2002	TPC decoding in soft handover	,	JONSSON, ELIAS
60444778	Not Issued		159	02/04/2003	Optimal scaling of RAKE output symbols for WCDMA	,	JONSSON, ELIAS
60472483	Not Issued		159	05/21/2003	Method and apparatus for improved DPCH SIR estimation	,	JONSSON, ELIAS
60479054	Not Issued		159	06/16/2003	Positioning a multipath search window	,	JONSSON, ELIAS
60479151	Not Issued		159	06/18/2003	Filtering multipath propagation delay values for use in a mobile communications system	,	JONSSON, ELIAS
60482673	Not Issued		159	06/26/2003	Method and device for detection of a signal	,	JONSSON, ELIAS
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60638268	Not Issued		159	12/21/2004	Method and device for power control	,	JONSSON, ELIAS
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60671099	Not Issued		159	04/14/2005	Cell selection for MBMS	,	JONSSON, ELIAS
60719037	Not Issued		159	09/21/2005	Selecting delay values for a rake receiver	,	JONSSON, ELIAS
60744673	Not Issued		159	04/12/2006	Controlling a power level in a wireless communications system with different scrambling codes	,	JONSSON, ELIAS
60771855	Not Issued		159	02/10/2006	Channel estimator and method for channel estimation	,	JONSSON, ELIAS
61012544	Not Issued		159	12/10/2007	Hybrid Parametric/Non-parametric Equalization	,	JONSSON, ELIAS
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